BIOTECHNOLOGY
SYSTEMS
BRANCH

RECEIVED

NOV 27 200

TECH CENTER 1600/2900

P#15

# RAW SEQUENCE LISTING
# ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:  *09/230,111 B*

Source:  *1642*

Date Processed by STIC:  *11-07-00*

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

<u>Checker Version 3.0 can be down loaded from the USPTO website at the following address:</u>
### http://www.uspto.gov/web/offices/pac/checker

BEST AVAILABLE COPY

```
      RAW SEQUENCE LISTING              DATE: 11/07/2000
      PATENT APPLICATION:  US/09/230,111B    TIME: 15:01:29

      Input Set : A:\48962apl.app
      Output Set: N:\CRF3\11072000\I230111B.raw

   3 <110> APPLICANT: Sato, Taka-Aki
   4         Yanagisawa, Junn
   6 <120> TITLE OF INVENTION: COMPOUNDS THAT INHIBIT INTERACTION BETWEEN
   7         SIGNAL-TRANSDUCING PROTEINS AND THE GLGF (PDZ/DHR)
   8         DOMAIN AND USES THEREOF
  10 <130> FILE REFERENCE: 48962-A-PCT-US
  12 <140> CURRENT APPLICATION NUMBER: 09/230,111B
  13 <141> CURRENT FILING DATE: 1999-05-17
  15 <160> NUMBER OF SEQ ID NOS: 33
  17 <170> SOFTWARE: PatentIn Ver. 2.1
  19 <210> SEQ ID NO: 1
  20 <211> LENGTH: 4
  21 <212> TYPE: PRT
  22 <213> ORGANISM: Artificial Sequence
  24 <220> FEATURE:
  25 <223> OTHER INFORMATION: Description of Artificial
  26         Sequence:source:synthesized
  28 <220> FEATURE:
  29 <221> NAME/KEY: SITE
  30 <222> LOCATION: (1)            /
  31 <223> OTHER INFORMATION: Xaa=Gly, Ser, Ala or Glu
  33 <220> FEATURE:
  34 <221> NAME/KEY: SITE
  35 <222> LOCATION: (4)          /
  36 <223> OTHER INFORMATION: Xaa=Phe, Ile or Leu
  38 <400> SEQUENCE: 1
  39 Xaa Leu Gly Xaa
  40    1
  43 <210> SEQ ID NO: 2
  44 <211> LENGTH: 6
  45 <212> TYPE: PRT
  46 <213> ORGANISM: Artificial Sequence
  48 <220> FEATURE:
  49 <223> OTHER INFORMATION: Description of Artificial
  50         Sequence:source:synthesized
  52 <220> FEATURE:
  53 <221> NAME/KEY: SITE
  54 <222> LOCATION: (1)          /
  55 <223> OTHER INFORMATION: Xaa=Lys, Arg or Gln
  57 <220> FEATURE:
  58 <221> NAME/KEY: SITE
  59 <222> LOCATION: (2)
  60 <223> OTHER INFORMATION: Xaa=any 2-4 amino acids
  62 <220> FEATURE:
  63 <221> NAME/KEY: SITE
  64 <222> LOCATION: (3)
  65 <223> OTHER INFORMATION: Xaa=Gly, Ser, Ala or Glu
```

W--> 39 Xaa Leu Gly Xaa

*Xaa may only represent one residue. See #6 on the Error Summary Sheet.*

```
     67 <220> FEATURE:
     68 <221> NAME/KEY: SITE
     69 <222> LOCATION: (6)
     70 <223> OTHER INFORMATION: Xaa=Phe, Ile or Leu
     72 <400> SEQUENCE: 2
W--> 73 Xaa Xaa Xaa Leu Gly Xaa          See p. 1
     74    1           5
     77 <210> SEQ ID NO: 3
     78 <211> LENGTH: 4
     79 <212> TYPE: PRT
     80 <213> ORGANISM: Artificial Sequence
     82 <220> FEATURE:
     83 <223> OTHER INFORMATION: Description of Artificial
     84       Sequence:source:synthesized
     86 <400> SEQUENCE: 3
     87 Ser Leu Gly Ile
     88    1
     91 <210> SEQ ID NO: 4
     92 <211> LENGTH: 3
     93 <212> TYPE: PRT
     94 <213> ORGANISM: Artificial Sequence
     96 <220> FEATURE:
     97 <223> OTHER INFORMATION: Description of Artificial
     98       Sequence:source:synthesized
    100 <220> FEATURE:
    101 <221> NAME/KEY: SITE
    102 <222> LOCATION: (1)
    103 <223> OTHER INFORMATION: Xaa=Ser or Thr
    105 <220> FEATURE:
    106 <221> NAME/KEY: SITE
    107 <222> LOCATION: (2)
    108 <223> OTHER INFORMATION: Xaa=any one amino acid
    110 <220> FEATURE:
    111 <221> NAME/KEY: SITE
    112 <222> LOCATION: (3)
    113 <223> OTHER INFORMATION: Xaa=Val, Ile or Leu
    115 <400> SEQUENCE: 4
W--> 116 Xaa Xaa Xaa
    117    1
    120 <210> SEQ ID NO: 5
    121 <211> LENGTH: 15
    122 <212> TYPE: PRT
    123 <213> ORGANISM: human
    125 <400> SEQUENCE: 5
    126 Asp Ser Glu Asn Ser Asn Phe Arg Asn Glu Ile Gln Ser Leu Val
    127    1           5                   10                  15
    130 <210> SEQ ID NO: 6
    131 <211> LENGTH: 15
    132 <212> TYPE: PRT
```

RAW SEQUENCE LISTING                    DATE: 11/07/2000
PATENT APPLICATION:  US/09/230,111B      TIME: 15:01:29

Input Set : A:\48962apl.app
Output Set: N:\CRF3\11072000\I230111B.raw

```
133 <213> ORGANISM: rat
135 <400> SEQUENCE: 6
136 Ser Ile Ser Asn Ser Arg Asn Glu Asn Glu Gly Gln Ser Leu Glu
137   1               5               10              15
140 <210> SEQ ID NO: 7
141 <211> LENGTH: 15
142 <212> TYPE: PRT
143 <213> ORGANISM: mouse
145 <400> SEQUENCE: 7
146 Ser Thr Pro Asp Thr Gly Asn Glu Asn Glu Gly Gln Cys Leu Glu
147   1               5               10              15
150 <210> SEQ ID NO: 8
151 <211> LENGTH: 4
152 <212> TYPE: PRT
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Description of Artificial
157       Sequence:source:synthesized
159 <400> SEQUENCE: 8
160 Glu Ser Leu Val
161   1
164 <210> SEQ ID NO: 9
165 <211> LENGTH: 6
166 <212> TYPE: PRT
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Description of Artificial Sequence:
171       source:synthesized
173 <400> SEQUENCE: 9
174 Thr Ile Gln Ser Val Ile
175   1               5
178 <210> SEQ ID NO: 10
179 <211> LENGTH: 8
180 <212> TYPE: PRT
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Description of Artificial
185       Sequence:source:synthesized
187 <400> SEQUENCE: 10
188 Arg Gly Phe Ile Ser Ser Leu Val
189   1               5
192 <210> SEQ ID NO: 11
193 <211> LENGTH: 8
194 <212> TYPE: PRT
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Description of Artificial
199       Sequence:source:synthesized
201 <400> SEQUENCE: 11
```

RAW SEQUENCE LISTING                    DATE: 11/07/2000
PATENT APPLICATION:  US/09/230,111B      TIME: 15:01:29

Input Set : A:\48962apl.app
Output Set: N:\CRF3\11072000\I230111B.raw

```
202 Arg Glu Thr Ile Glu Ser Thr Val
203   1               5
206 <210> SEQ ID NO: 12
207 <211> LENGTH: 11
208 <212> TYPE: PRT
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Description of Artificial
213        Sequence:source:synthesized
215 <400> SEQUENCE: 12
216 Gln Asn Phe Arg Thr Tyr Ile Val Ser Phe Val
217   1               5                    10
220 <210> SEQ ID NO: 13
221 <211> LENGTH: 13
222 <212> TYPE: PRT
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Description of Artificial
227        Sequence:source:synthesized
229 <400> SEQUENCE: 13
230 Ser Asp Ser Asn Met Asn Met Asn Glu Leu Ser Glu Val
231   1               5                    10
234 <210> SEQ ID NO: 14
235 <211> LENGTH: 15
236 <212> TYPE: PRT
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Description of Artificial
241        Sequence:source:synthesized
243 <400> SEQUENCE: 14
244 Pro Pro Thr Cys Ser Gln Ala Asn Ser Gly Arg Ile Ser Thr Leu
245   1               5                    10                 15
248 <210> SEQ ID NO: 15
249 <211> LENGTH: 15
250 <212> TYPE: PRT
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Description of Artificial
255        Sequence:source:synthesized
257 <400> SEQUENCE: 15
258 Ile Asp Leu Ala Ser Glu Phe Leu Phe Leu Ser Asn Ser Phe Leu
259   1               5                    10                 15
262 <210> SEQ ID NO: 16
263 <211> LENGTH: 15
264 <212> TYPE: PRT
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Description of Artificial
269        Sequence:source:synthesized
```

```
271 <400> SEQUENCE: 16
272 Asp Ser Glu Met Tyr Asn Phe Arg Ser Gln Leu Ala Ser Val Val
273  1               5                   10                  15
276 <210> SEQ ID NO: 17
277 <211> LENGTH: 15
278 <212> TYPE: PRT
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Description of Artificial
283       Sequence:source:synthesized
285 <400> SEQUENCE: 17
286 Ile Pro Pro Asp Ser Glu Asp Gly Asn Glu Glu Gln Ser Leu Val
287  1               5                   10                  15
290 <210> SEQ ID NO: 18
291 <211> LENGTH: 4
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial
297       Sequence:source:synthesized
299 <400> SEQUENCE: 18
300 Gln Ser Leu Val
301  1
304 <210> SEQ ID NO: 19
305 <211> LENGTH: 5
306 <212> TYPE: PRT
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Description of Artificial Sequence:source
311       synthesized
313 <400> SEQUENCE: 19
314 Ile Gln Ser Leu Val
315  1               5
318 <210> SEQ ID NO: 20
319 <211> LENGTH: 6
320 <212> TYPE: PRT
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Description of Artificial
325       Sequence:source:synthesized
327 <400> SEQUENCE: 20
328 Glu Ile Gln Ser Leu Val
329  1               5
332 <210> SEQ ID NO: 21
333 <211> LENGTH: 7
334 <212> TYPE: PRT
335 <213> ORGANISM: Artificial Sequence
337 <220> FEATURE:
338 <223> OTHER INFORMATION: Description of Artificial
```

VERIFICATION SUMMARY          DATE: 11/07/2000
PATENT APPLICATION: US/09/230,111B        TIME: 15:01:30

Input Set : A:\48962apl.app
Output Set: N:\CRF3\11072000\I230111B.raw

L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:1606 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:31
L:1606 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:31
L:1606 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:31
L:1623 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:32
L:1623 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:32
L:1623 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32
L:1640 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:33
L:1640 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:33
L:1640 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:33